Zwick / Roell

Zwick
Materials Testing

Product Information
Zwick Cutting Presses

Manual cutting press Zwick ZCP 020

Pneumatic cutting press Zwick 7108

Range of application
Zwick cutting presses are used to manufacture specimens from rubber, elastomers, foam rubber, plastic foils, and paper with a hardness up to 85 Shore A (according to ISO 868). The primary specimen shape classifications are as follows:

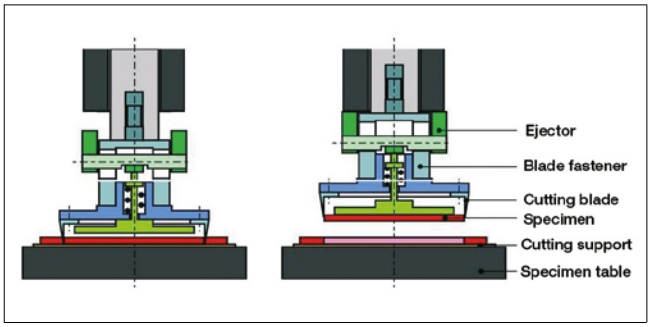
- Rectangular specimen
- Dumbbell specimen
- Round specimen
- Special specimen

Exceeding the given Shore hardness will greatly reduce the lifetime of the cutting blade and, in extreme cases, can result in damage.

Mode of operation
A cutting die consists of a cutting blade, a retainer, and an ejector. The cutting blade is constructed from special steel and is supplied in one piece. This guarantees optimal dimensional stability, form accuracy, and a long lifetime.

The mechanical ejector integrated in the cutting blade can be set to the specimen thickness to be cut. The finished specimen is ejected after being cut.

This minimizes both the injury risk for the operator and the damage risk for the cutting blade.



Zwick can sharpen the cutting blades if they lose their edge.

Advantages/characteristics
- Specimen production in accordance with standards
- Manual or pneumatic operation depending on cutting press type
- Can be used flexibly for different materials with hardness up to 85 Shore A
- Easy operation
- High operational safety due to integrated ejector system
- Long tool lifetime

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Zwick cutting presses: overview

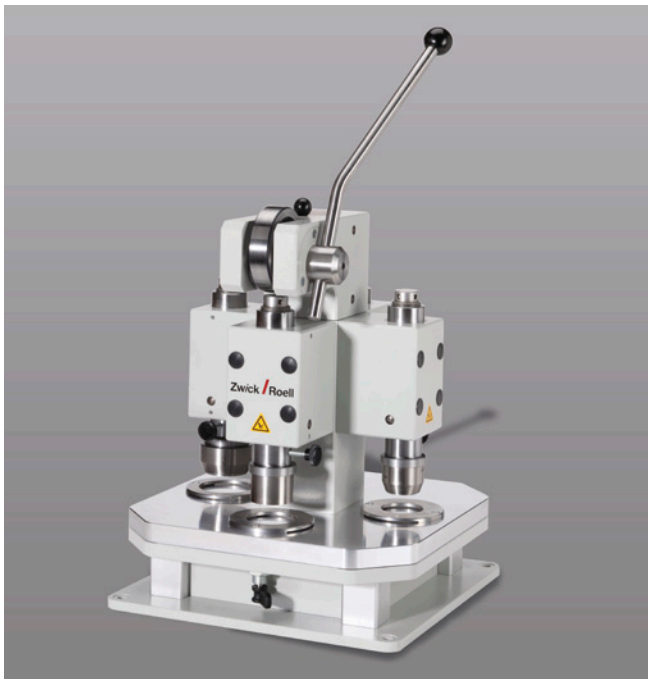
The Zwick 7101 manual cutting press is operated by an exentric lever. The press is designed for mounting up to four cutting dies simultaneously. It is also suitable for rectangular specimens up to 160 x 30 mm and squared specimens 75 x 75 mm (option).

Zwick 7108 pneumatic cutting press allows higher cutting forces. Two-handed operation with a safety interlock and the fasteners for the cutting blades are part of the standard equipment.

The ZCP 020 manual cutting press employs the bent lever principle. Interesting detail solutions allow exact, energy-saving, and comfortable operation. The bent lever length was selected to achieve up to 30 % higher cutting force in the starting range compared to conventional presses.

This cutting press distinguishes itself through its operator friendly construction. It can be placed on any work or laboratory table or mounted at the optimal height on a sturdy wall.

In addition, particular emphasis was placed on a simple, quick, and exact height adjustment of the compression die for adapting to the varying installation heights of the different cutting blades.



Manual cutting press Zwick 7101

Type	7101	7108	ZCP 020	
Item number	**071446**	**007952**	**389819**	**Unit**
Max compressive force	5	35	20	kN
Max distance between cutting table and push-rod		93	105 ... 155	mm
Projection	60	110	125	mm
Cutting table	120 x 200	350 x 215	250 x 250	mm
Compressed air supply	-	6	-	bar
Dimensions (width x depth x height)	330 x 330 x 450	350 x 450 x 650	250 x 350 x 540	mm
Weight	50	75	55	kg

Option for larger support surface for ZCP 020

Description	Item number
Plastic plate 450 x 245 x 5 mm for larger support surface (incl. fixing)	**363891**

Option for centering stencil for 7101

Description	Item number
Centering Stencil for plate diameter 60 mm, 52,6 mm and 44,6 mm	**036301**

All data at ambient temperature.

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